

MAR 1952

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CLASSIFICATION CONFIDENTIALCENTRAL INTELLIGENCE AGENCY
INFORMATION FROM
FOREIGN DOCUMENTS OR RADIO BROADCASTS

REPORT

CD NO.

COUNTRY USSR

DATE OF
INFORMATION 1953SUBJECT Economic; Technological - Bearing industry,
consumers' goods

DATE DIST. 15 Jan 1954

HOW
PUBLISHED Monthly periodicals and daily newspapers

NO. OF PAGES 3

WHERE
PUBLISHED USSRDATE
PUBLISHED Jun-20 Aug 1953SUPPLEMENT TO
REPORT NO.

LANGUAGE Russian

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USSR BEARING PLANTS IMPROVE METHODS. PRODUCE CONSUMERS' GOODS

NEW INDUCTION HEATER FOR BALL PRODUCTION -- Moscow, Avtomobil'naya i Traktornaya
Promyshlennost', Jun 53

For a long time, a high-production transverse ball rolling mill at the
Moscow First State Bearing Plant imeni L. M. Kaganovich could not be operated
at full capacity because the two-level electric resistance furnace used for
heating steel rods had only one fourth to one fifth the capacity of the mill.

The Scientific Research Institute for High-Frequency Currents and the plant
have designed and built an automatic induction heater to replace the furnace.
This heater has a greater capacity than the mill, has eliminated stoppages caused
by shortages of heated blanks, and has reduced electric power consumption in
heating blanks to one third the former consumption. The heater has two parallel,
independent passes. Each pass consists of a hopper for loading in stock, an
induction heater, and a device for feeding the stock to the mill. Either pass
can operate singly or in combination with the other. The use of two passes evens
the load on the generator, since the power drain is greatest when a cold piece
of stock enters one of the induction heaters.

The heater has a capacity of 1,100 kilograms per hour, consumes an average
of 300 kilowatts for a heating temperature of 850 degrees, and can heat rods up
to 2 meters long and from 19 to 50 millimeters thick.

DEVELOPMENTS AT MOSCOW BEARING PLANT -- Moscow, Komsomol'skaya Pravda, 11 Jul 53

At the Moscow First State Bearing Plant, use of two forming presses for
processing bearing rings freed about 30 automatic lathes. One forming press
replaced four two-spindle drilling machines and four lathes. A cold upsetting
machine used at the plant makes up to 140 bolts a minute.

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Kishinev, Sovetskaya Moldaviya, 7 Aug 53

In 1953, the Moscow First State Bearing Plant has begun the production of more than 50 new types of bearings. Small series shop No 4, which makes six-row bearings for the Zaporozh'ye Metallurgical Plant imeni Ordzhonikidze, displayed great efficiency in organizing the output of new products.

Small series shop No 3 began to produce two-row tapered bearings, each about one meter in diameter and weighing almost one half ton. These bearings are being built for the turbines of the hydroelectric stations being built on the Volga and Dnepr.

Moscow, Moskovskiy Komsomolets, 12 Aug 53

In the next 2 or 3 years, many shops of the Moscow First State Bearing Plant will be completely altered and rebuilt.

Two automatic production lines are already in operation and several more will be set up in the next few months.

An eight-store dwelling house facing on Sharikopodshipnikovaya Ulitsa and Novo-Ostapovskaya Ulitsa is being built for workers of the plant. More than 4,000 plant workers spent their vacations in sanatoriums in the Crimea and the Caucasus.

The automatic lathe shop, small series shop No 4, precision bearings shop No 1, the forge shop, and other shops are doing excellent work.

Moscow, Moskovskaya Pravda, 12 Aug 53

In June 1953, the reject rate in the ball shop of the Moscow First State Bearing Plant was 0.097 percent.

Moscow, Vechernyaya Moskva, 20 Aug 53

The small series shop of the Moscow First State Bearing Plant fulfilled its plans for the second quarter, for July, and for the first 10 days of August 1953. The shop has been assigned the production of several 4-ton bearings for the metallurgical industry in August and has already completed two of the giant bearings.

BEARINGS FOR AGRICULTURE -- Moscow, Vechernyaya Moskva, 18 Aug 53

The Moscow Second State Bearing Plant fills many orders for agricultural machine building enterprises.

Plant workers have promised to turn out 36,000 bearing cages above the August plan.

SET UP AUTOMATIC LUBRICATING LINE, CUT COSTS -- Moscow, Izvestiya, 24 Jul 53

The Khar'kov Ball Bearing Plant has set up an automatic line for conveying and lubricating finished bearings. This line replaces 45 workers. In 2 or 3 weeks, a packaging machine that will wrap the bearings in parchment and place them in boxes will be set up at the end of the lubricating conveyor.

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The Khar'kov plant was first to use the electromechanical method for preliminary machining of balls after pressing, and thus reduced the time required for preliminary processing by 48 hours.

Moscow, Professional'nyye Soyuzy, Aug 53

As the result of a competition to reduce production costs for every operation, the Khar'kov Ball Bearing Plant in 1952 raised bearing output 3.5 times that of 1949, reduced the consumption of alloy steel per 1,000 medium-weight bearings 785 kilograms below that of 1950, and saved 4 million rubles above the plan.

FAIL TO TURN IN OLD BEARINGS IN USABLE CONDITION -- Minsk, Sovetskaya, Belorussiya, 15 Aug 53

Used roller and ball bearings can be rebuilt as many as six times and after each restoration can be used for the same length of time as a new bearing. Unfortunately, many workers of MTS, motor vehicle repair shops, sovkhozes, industrial enterprises, and garages are careless with old bearings, often removing them by cracking the outer ring with a sledge hammer instead of using a bearing puller. As a result of this carelessness, 75 percent of the used bearings are unfit for rebuilding.

In 1952, oblast offices of Avtotraktorosbyt (Main Administration of Sales of the Motor Vehicle and Tractor Industry) did not fulfill their plan for collecting used bearings, and are not fulfilling their plan at present. The Brestskaya, Baranovichskaya, and Molodechnenskaya oblast offices are especially remiss in this respect. Oblast offices of Avtotraktorosbyt should redouble their efforts to collect old bearings and other motor vehicle and tractor parts. -- P. Vinogradov, director, Grodno Bearing Repair Plant

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